برنامج ال base register

```
#include<iostream.h>
void main()
{
int logadd,basereg=10,ram=512,i;
for(i=1;i<=3;++i)
{
cout<<"Please enter logical address"<<"\t";
cin>>logadd;
if(logadd<=ram)
{
basereg=basereg+logadd;
if(logadd<basereg)
{
 if(basereg>ram)
 {
       cout<<"Out of Ram"<<endl;
       break;
 }
       cout<<"The new logical address is"<<"\t";
       cout<<basereg<<endl;
}
}
else
cout<<"Out of Ram"<<endl;
}
}
```

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برنامج ال fence register

```
#include<iostream.h>
void main()
{
int fencereg=10,logicaladd,i=0,ram=32;
for(i=0;i<=20;++i)
{
cin>>logicaladd;
if(logicaladd<=ram)
{
if (logicaladd>=fencereg)
cout<<"Program is accept"<<endl;
else
cout<<"Interropt"<<endl;
}
else
cout<<"out of memory"<<endl;
}
}
```

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برنامج ال Interrupt

```
#include<iostream.h>
void main()
{
int logicaladdress,fencereg=10,i=0;
for(i=1;i<=15;++i)
{
cin>>logicaladdress;
if(logicaladdress>=fencereg)
cout<<"Program is accept"<<endl;
else
cout<<"Interrupt"<<endl;
}
}
```

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برنامج ال limit and base register

```
#include<iostream.h>
void main()
{
int i=0,logadd,ram=256,rm=10,limit=0;
for(i=0;i<=4;++i)
{
cout<<"Please enter logical address"<<"\t";
cin>>logadd;
limit=logadd+rm;
if(logadd<=ram)
{
 if(logadd<limit)
{
 cout<<"logadd is accept"<<endl;
 logadd=logadd+rm;
}
 else
 {
 cout<<"trup,address error"<<endl;
 }
}
else
{
cout<<"Out of Ram"<<endl;
break;
}
cout<<"New logical address="<<logadd<<endl;
}
limit=limit+logadd;
}
```

برنامج ال pagging

```
#include<iostream.h>
#include<math.h>
void main()
{
int
size,progsize,frame[12]={5,11,10,12,8,0,1,3,7,9,100,14},Pagenu
,userprg,pageta,i=0,max=0,max1=0,MM,j=0;
cout<<"please enter program size"<<"\t";
cin>>progsize;
cout<<"please enter size of word"<<"\t";
cin>>size;
Pagenu=(progsize/size);
        if(progsize%size>0)
                 {
                 Pagenu=Pagenu+1;
                 cout<<"Page number = "<<Pagenu<<endl;
                 userprg=Pagenu-1;
                cout<<"Page number = "<<Pagenu<<"\t";       //This
for page table
                pageta=Pagenu+1;
                cout<<"userprg = "<<userprg<<"\t"<<"pageta =
"<<pageta<<endl;
                cout<<"Page table"<<endl;
                for(i=0;i<=userprg+1;++i)
                cout<< "P" <<i<<" = "<<frame[i]<<endl;
      frame[i]=max;
                        for(i=0;i<pageta;++i)
                        {
                        if(frame[i]>frame[i+1])
                        {
                        max=frame[i];
                        frame[i]=frame[i+1];
                        frame[i+1]=max;
                        }
```

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```
        }
                cout<<"max = "<<max<<endl;
                 for(i=0;i<pageta+1;++i)
                {
                if(frame[i]>frame[i+1])
                {
                max1=frame[i];
                frame[i]=frame[j];
                frame[j]=max1;
                }
                }
                cout<<"frame[j] = "<<max1<<endl;
                if(MM>=max1)
                {
                for(j=0;j<=max1;++j)
                {
                MM=frame[j];
                cout<< "P " <<j<<" In Physical Address
"<<frame[i]<<endl;
                }
                }
                else
                cout<<"00000000";
        }
        else
        {
        userprg=Pagenu-1;
        cout<<"Page number = "<<Pagenu<<"\t";      //This
for page table
        pageta=Pagenu+1;
        cout<<"userprg = "<<userprg<<"\t"<<"pageta =
"<<pageta<<endl;
        cout<<"Page table"<<endl;
        for(i=0;i<=userprg+1;++i)
        cout<< "P" <<i<<" = "<<frame[i]<<endl;
```

```
		frame[i]=max;
			for(i=0;i<pageta;++i)
			{
			if(frame[i]>frame[i+1])
			{
			max=frame[i];
			frame[i]=frame[i+1];
			frame[i+1]=max;
			}
		}
			cout<<"max = "<<max<<endl;
			 for(i=0;i<pageta;++i)
			{
			if(frame[i]>frame[i+1])
			{
			max1=frame[i];
			frame[i]=frame[j];
			frame[j]=max1;
			}
			}
			cout<<"frame[j] = "<<frame[j]<<endl;
			for(j=0;j<=pageta;++j)
			{
			MM=frame[j];
			cout<< "P " <<j<<" In Physical Address 
"<<MM<<endl;
			}
		}
}
```

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برنامج ال segmentation

```
#include<iostream.h>
void main()
{
int
seg,limit[4]={100,200,300,400},base[4]={130,230,330,430},i=0;
for(i=0;i<=3;++i)
{
        cin>>seg;
        for(i=0;i<=3;++i)
         if(seg<=limit[i])
         {
         seg=seg+base[i];
         base[i]=base[i]+seg;
         cout<<" 1 In Memory ="<<seg<<endl;
         cout<<base[i]<<endl;
         break;
         }
         else
         {
         cout<<"0"<<endl;
         }
         for(i=0;i<=3;++i)
         {
         limit[i]=limit[i]-seg;

         }
       }
 cin>>seg;
 }
```

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برنامج ال priority

```
                    //Priority
#include<iostream.h>
void main()
{
 int job[4]={15,5,35,25},i,w=0,t=0,a,c;
 float TT=0,TW=0;
        w=0;
        cout<<"Please enter - 0 - to (( low )) or - 1 - to (( high ))
"<<"\t";
        cin>>c;
        switch (c)
        {
        case 0:
                {
                cout<<"Case Low"<<endl;
                for(i=0;i<4;++i)
                if(job[i]>job[i+1])
                {
                a=job[i];
                job[i]=job[i+1];
                job[i+1]=a;
                }
                cout<<"Job"<<"\t"<<"Bursttime
"<<"\t"<<"\t"<<"Time"<<"\t"<<"\t"<<"Wait"<<endl;
                for(i=0;i<4;++i)
                {
                t=t+job[i];
                TT=TT+t;
                TW=TW+w;

cout<<i<<"\t"<<job[i]<<"\t"<<"\t"<<"\t"<<t<<"\t"<<"\t"<<w<<e
ndl;
                w=t;
                }
```

```
cout<<"\t"<<"\t"<<"\t"<<"Toteltime  ~ "<<TT/4<<"\t";
cout<<"Totelwait  ~ "<<TW/4<<endl;
            };break;
      case 1:
            {
   cout<<"Case High"<<endl;
            for(i=0;i<4;++i)
            if(job[i]>job[i+1])
            {
            a=job[i];
            job[i]=job[i+1];
            job[i+1]=a;
            }
            cout<<"Job"<<"\t"<<"Bursttime
"<<"\t"<<"\t"<<"Time"<<"\t"<<"\t"<<"Wait"<<endl;
            for(i=0;i<4;++i)
            {
            t=t+job[i];
            TT=TT+t;
            TW=TW+w;

cout<<i<<"\t"<<job[i]<<"\t"<<"\t"<<"\t"<<t<<"\t"<<"\t"<<w<<e
ndl;
            w=t;
            }
cout<<"\t"<<"\t"<<"\t"<<"Toteltime  ~ "<<TT/4<<"\t";
cout<<"Totelwait  ~ "<<TW/4<<endl;
            };break;
      }
}
```

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برنامج ال short job first

```
//Short Job First
#include<iostream.h>
void main()
{
 int job[4]={15,5,35,25},i,t=0,w=0,a;
 float TT=0,tw=0;
    w=0;
    for(i=0;i<4;++i)
        if(job[i]>job[i+1])
        {
        a=job[i];
        job[i]=job[i+1];
        job[i+1]=a;
        }
        cout<<"Job"<<"\t"<<"Burst
time"<<"\t"<<"\t"<<"Time"<<"\t"<<"\t"<<"Wait"<<endl;
        for(i=0;i<4;++i)
        {
        t=t+job[i];
        tw=tw+w;
        TT=TT+t;
```

```
cout<<i+1<<"\t"<<job[i]<<"\t"<<"\t"<<"\t"<<t<<"\t"<<"\t"<<
w<<endl;
                    w=t;
                    }
           cout<<"\t"<<"\t"<<"\t"<<"Totel Time ~
"<<TT/4<<"\t"<<"Totel Wait ~ "<<tw/4;
}
```

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برنامج ال Short Job Service

```
#include<iostream.h>
void main()
{
  int job[4]={15,5,35,25},i,t=0,w=0,x;
  float TT=0,tw=0;
                w=0;
                for(i=0;i<4;++i)
                if(job[i]>job[i+1])
                {
                x=job[i];
                job[i]=job[i+1];
                job[i+1]=x;
                }
                cout<< "Jobs"<<"\t"<<"Burst time"<<"\t"
<<"Time"<<"\t" <<"Wait"<<endl;
                for(i=0;i<4;++i)
                {
                t=t+job[i];
                tw=tw+w;
                TT=TT+t;
```

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```
                cout<<"j"<<i+1<<"\t"<<job[i]<<"\t"<<"\t"<<t
<<"\t"<< w<<endl;
                w=t;
                }
        cout<<"\t"<<"\t"<<"Totel Time ~ "<<TT/i<<"\t"<<"tw ~
"<<tw/i;
}
```

ثمن هذا الكتاب

الدعاء لي ولوالدين بحسن العاقبة

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